

**CLAIMS**

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is as follows:

1. 1. A system for point to point data streaming over a network, comprising:
  2. a Sender node for generating streaming data from a target site, said Sender being a client having an address on a network;
  3. a Viewer node for monitoring said target site using said data, said Viewer being a client on said network; and
  4. a Mediator node for remotely controlling direct transmission of said data from said Sender to said Viewer,
    5. wherein said direct transmission is initiated and paused asynchronously by said Viewer.
1. 2. A system as in claim 1, wherein said network is a TCP/IP network.
1. 3. A system as in claim 1, wherein said streaming data is multi-media.
1. 4. A system as in claim 1, wherein said Sender's address is dynamic.
1. 5. A system as in claim 1, wherein said Mediator node contains a registry which monitors and records session information, Sender location and availability, and Viewer access privileges, and wherein said Mediator node provides a static Internet location for accessing the system.

- 1       6. A system as in claim 1, wherein said Sender further comprises means for  
2       accepting requests from authorized Viewers and means for streaming said data  
3       to said authorized Viewers.
  
- 1       7. A system as in claim 6, further comprising a plurality of Senders, a plurality  
2       of Viewers, and a plurality of Mediator nodes.
  
- 1       8. A system as in claim 7, wherein a first Sender further comprises a  
2       MediaRelay for retransmitting to a Viewer or another Sender a data stream  
3       generated by said first Sender or received from a second Sender.
  
- 1       9. A system as in claim 7, wherein each said Mediator node provides security.
  
- 1       10. A system as in claim 9, wherein said security is implemented by encrypted  
2       communication tokens, each said token containing an address of a designated  
3       Sender and being readable by a designated Viewer, said designations being  
4       mediated at said Mediator node.
  
- 1       11. A system as in claim 1, wherein said streaming data is generated and  
2       transmitted in real-time.
  
- 1       12. A system as in claim 1, wherein said Sender is implemented by  
2       MediaSender software and said software is updated automatically from said  
3       Mediator node.
  
- 1       13. A system as in claim 12, wherein said software is constructed using  
2       platform independent Java technology.

1       14. A method for point to point data streaming over a network between a  
2       Sender and a Viewer, comprising the steps of:

3           registering Sender information with a Mediator node, said Sender  
4       information including at least a location of said Sender and a list of Viewers  
5       having access rights;

6           authenticating said Sender by said Mediator;

7           requesting access to said Sender by a Viewer;

8           logging said Viewer's request with said Mediator node, said logging  
9       validating said Viewer against said list of Viewers;

10          transmitting said location information to said validated Viewer and  
11       notifying said Sender of said validated Viewer; and

12          downloading by said Viewer of a videostreamer from said Sender.

1       15. The method of claim 14, wherein said network is a TCP/IP network.

1       16. The method of claim 14, wherein said streaming data is multi-media.

1       17. The method of claim 14, wherein said Sender's address is dynamic.

1       18. The method of claim 14, wherein said Mediator node contains a registry  
2       which monitors and records session information, Sender location and  
3       availability, and Viewer access privileges.

1       19. The method of claim 14, further comprising the steps of:

2           registering a second Sender's information by said Mediator node, said  
3       information including at least a location of said second Sender, said second

4 Sender having a MediaRelay for retransmitting said videotreamer to said  
5 Viewer;

6 after said logging of said Viewer's request, transmitting to said validated  
7 viewer said second Sender's location information, said videotreamer then  
8 being transmitted by said Sender to said second Sender and downloaded to said  
9 Viewer by said MediaRelay.

1 20. A system for point to point data streaming over a network between a  
2 Sender and a Viewer, comprising:

3 means for registering Sender information with a Mediator node, said  
4 Sender information including at least a location of said Sender and a list of  
5 Viewers having access rights;

6 means for authenticating said Sender by said Mediator;

7 means for requesting access to said Sender by a Viewer;

8 means for logging said Viewer's request with said Mediator node, said  
9 logging validating said Viewer against said list of Viewers;

10 means for transmitting said location information to said validated  
11 Viewer and notifying said Sender of said validated Viewer; and

12 means for downloading by said Viewer of a videotreamer from said  
13 Sender.

1 21. A system for point to point data streaming over a network, comprising:

2 means for transmitting a data stream from a Sender to one or more  
3 Viewers, optionally via one or more Relays;

4 means for registering information of said Sender with a Mediator node,  
5 said information including said Sender's location on said network and said  
6 Sender's availability for said transmission;

7           means for said Viewers to request access to said Sender from a Mediator  
8           node;

9           means for said Mediator node to provide said location information to  
10          said Viewers if said Sender is available;

11          wherein said transmission to said Viewer is initiated, stopped and  
12          restarted asynchronously by said Viewer.

1           22. A system as in claim 21, wherein said providing means use encrypted  
2          tokens for security.